

CLAIMS

1. A telephone communication system that includes a radiocommunication module (10) and a data encryption/decryption module 5 (28), characterised in that:

- the radiocommunication module (10) includes a modem interface module (20) linked to the radiocommunication module (10) and controlling an external modem (33);
- the encryption/decryption module (28) includes a reader for 10 microcircuit media, an encryption/decryption circuit (29) and a vocoder circuit (30) receiving speech data, to be encrypted or decrypted, from the radiocommunication module (10), where the encryption/decryption of the data is effected directly in the encryption/decryption circuit (29) of the encryption/decryption module (28).

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2. A telephone communication system according to claim 1, characterised in that the radiocommunication module (10) includes a first switching (27) of the encrypted speech data to the modem interface (20) or to a modulation/demodulation circuit (12) composed of a software-controlled 20 switching resource.

25 3. A telephone communication system according to claim 1 or 2, characterised in that the radiocommunication module (10) includes a second switching (24) of the data from the modem to the encryption/decryption module (28) or to a modulation/demodulation circuit (12) composed of a software-controlled switching resource.

30 4. A telephone communication system according to one of claims 1 to 3, characterised in that the radiocommunication module (10) includes at least one command of the menu displayed on a display device of the terminal, allowing one to choose the conversation and transmission mode.

5. A telephone communication system according to one of claims 1 to 4 characterised in that the encryption/decryption module (28) is inserted into a unit cover linked to the terminal module by a contactor (31).

5 6. A telephone communication system according to claim 4 or 5, characterised in that the encryption/decryption module (28) includes a data media reader for the exchange only of the user's encryption session keys.

10 7. A telephone communication system according to one of claims 4 to 6 characterised in that the radiocommunication module (10) includes a serial connection (25) to an external modem (33).

8. A telephone communication system according to claim 7, characterised in that the serial connection (25) is of the RS232 wire type.

15 9. A telephone communication system according to claim 7, characterised in that the serial connection (25) is not of the wire type.

20 10. A telephone communication system according to claim 9, characterised in that the serial connection (25), not of the wire type, is Infrared.

25 11. A telephone communication system according to claim 9, characterised in that the serial connection (25), not of the wire type, is 802.11 radio (WIFI).

12. A telephone communication system according to claim 9, characterised in that the serial connection (24), not of the wire type, is bluetooth.

30 13. A telephone communication system according to one of claims 4 to 12, characterised in that the conversation mode selected by the menu is a

telephone call in plain language through the cellular radiotelephone network, directly connecting a DSP (16) on send or receive with a radio modulation-demodulation circuit (12) of the radiocommunication module (10).

5 14. A telephone communication system according to one of claims 4 to 12, characterised in that the conversation mode selected by the menu is an encrypted telephone call through the cellular radiotelephone network, where this mode inserts the encryption/decryption module (28) between a DSP (16) and a modulation/demodulation circuit radio (12) of the radiocommunication 10 module (10) by switching the first switchbox (27).

15 15. A telephone communication system according to one of claims 4 to 12, characterised in that the conversation mode selected by the menu is an encrypted telephone call through the switched telephone network (4) or a satellite (6) via an external modem (33) controlled by the radiocommunication module (10), where, by switching the first switchbox (27), this mode inserts, between the DSP (16) and the encryption/decryption module (28), a vocoder circuit (30) that adapts the digital signals of the DSP (16) to the transmission speed of a modem before sending them to the encryption/decryption circuit 20 (29) and diverting the signals coming from the external modem (33) and exiting from the encryption/decryption circuit, to a loudspeaker (13), and those coming from a microphone (19) and exiting from the encryption/decryption circuit (29) to the external modem (33).

25 16. A telephone communication system according to one of claims 4 to 12, characterised in that the mode of transmission of the data selected by the menu is a plain-language telephone transmission through the cellular radiotelephone network connecting the modem interface module (20) with a radio modulation-demodulation circuit (12) by switching the second switchbox 30 (24).

17. A telephone communication system according to one of claims 4 to 12, characterised in that the mode of transmission of the data selected by the menu is an encrypted telephone transmission through the cellular radiotelephone network, inserting the encryption/decryption module (28) between the modem interface module (20) and the radio modulation/demodulation circuit (12) by switching the second switchbox (24).